

DT-6624

Control No. 313,869

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: ECKHARD BEZ, ET AL.
SERIAL NO.: 10/690,112
FILED: OCTOBER 12, 2003
FOR: MULTISTAGE RECIPROCATING VACUUM PUMP
AND METHOD OF OPERATING SAME
EXAMINER: 3745

Mail Stop: **AMENDMENT**
Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 CFR §§ 1.97 and 1.98, applicant respectfully requests that the documents listed on the attached form PTO-1449, be made of record and considered in connection with the examination of this application. Copies of the listed documents are enclosed. A translation of the foreign language document is not readily available.

The documents submitted herewith were cited in a Search Report (copy enclosed) issued in a European application corresponding to the above-referenced application.

U.S. Patent No. 2,246,932 discloses a combination single and two stage vacuum pump.

European Publication EP 0715 077 A2 discloses a compressor for a single or multistage operation.

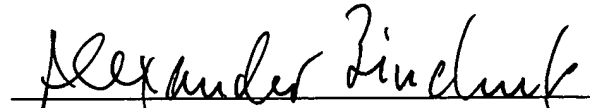
European Publication EPO 863 313 A1 discloses a two stage scroll compressor.

German Utility Model DE 202 02 190 U1 discloses a valve-controlled regulation of a multistage gas delivery pump having its inlet and outlet connected with a valve block (1) by suitable conduits. The valve block (1) includes check valves 2, 3 which are open in the flow direction until a predetermined switching point is reached. The relief valve (4) and the under-pressure valve (5) remain closed, and both stages operate in parallel with each other when the switching point is reached, a corresponding valve (4.5) opens, the relief valve (4) during pressure operation and the under-pressure valve (5) during the vacuum operation. Accordingly, in the flow direction, pressure increases behind the relief valve (3) and is reduced in front of the relief valve (2). Both relief valves (2,3) become closed. The volume flow is directed from a pressure side of pump stage (6) to the suction side of another pump stage (7), so that the pump stages operate seriesly. Below the switch point, the valves (2, 3, 4, 5) return to their initial position.

No fee is due with this Information Disclosure Statement as it is being submitted within three months from the date applicant became familiar with the

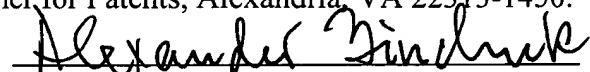
references (as evidenced by the date of the Report, November 7, 2005) and before the first Office Action on merits.

Respectfully submitted,


Alexander Zinchuk
Reg. No. 30,541

Dated: December 8, 2005
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This correspondence is being deposited with the United States Postal Service on December 8, 2005 in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number **ER 842 053 743 US** addressed to the Honorable Commissioner for Patents, Alexandria, VA 22313-1450.


Alexander Zinchuk

Form PTO-1449
(Rev. 7-80)U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket Control No.
DT-6624 (DT-6624)Serial No.
10/690,112LIST OF RELATED ART CITED BY APPLICANT
(Use several sheets if necessary)

Applicant Eckhard Bez, et al.

Filing Date
October 12, 2003Group
3745

U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number							Date	Name	Class	Subclass	Filing Date If Appropriate
	AA	2	2	4	6	9	3	2	6/1941	Collins			
	AB												
	AC												
	AD												
	AE												
	AF												
	AG												
	AH												
	AI												
	AJ												

FOREIGN PATENT DOCUMENTS

		Document Number							Date	Country	Class	Subclass	Translation YES NO	
	AL	0	8	6	3	3	1	3	9/1998	Europe				
	AM	0	7	1	5	0	7	7	5/1996	Europe				
	AN	0	2	0	2	1	9	0	8/2002	Germany				X
	AO													
	AP													

OTHER RELATED ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR		Search Report
	AS		
	AT		

Examiner

Date Considered

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.